

This listing of claims replaces all prior versions, and listings of claims in the application:

LISTING OF THE CLAIMS

1. (Previously Presented) A data cartridge magazine for use in a magazine-based data cartridge library that is capable of transporting data cartridge magazines within the library, the data cartridge magazine comprising: a box structure with an interior space for accommodating a plurality of data cartridges; wherein said box structure comprises a bottom wall with a bottom wall interior surface and a bottom wall exterior surface; wherein said box structure comprises a side wall that is operatively attached to said bottom wall, extends from said bottom wall to a side wall terminal edge, and has a side wall interior surface and a side wall exterior surface; wherein said bottom wall interior surface and said side wall interior surface define said interior space; wherein said side wall terminal edge defines a top opening for the insertion/extraction of data cartridges into/from said interior space; a plurality of partitioning structures for dividing said interior space into a plurality of slots with each of said plurality of slots capable of accommodating one of said plurality of data cartridges; and a magazine transport means for being engaged by a portion of a magazine transport device that is associated with said magazine-based data cartridge library and used to displace said data cartridge magazine towards and away from a storage location within said magazine-based data cartridge library.
2. (Previously Presented) The data cartridge magazine, as claimed in claim 1, wherein: said magazine transport means comprises a hole that is associated with one of said bottom wall and said side wall.
3. (Previously Presented) The data cartridge magazine, as claimed in claim 1, wherein: said magazine transport means comprises a protrusion that is associated with one of said bottom wall and said side wall.
4. (Previously Presented) The data cartridge magazine, as claimed in claim 1, wherein: said magazine transport means comprises an indentation that is associated with one of said bottom wall and said side wall.

5. (Previously Presented) The data cartridge magazine, as claimed in claim 1, wherein: said magazine transport means comprises a pair of holes, with each of said pair of holes associated with one of said bottom wall and said side wall.

6. (Previously Presented) The data cartridge magazine, as claimed in claim 1, wherein: said magazine transport means comprises a pair of protrusions, with each of said pair of protrusions associated with one of said bottom wall and said side wall.

7. (Previously Presented) The data cartridge magazine, as claimed in claim 1, wherein: said magazine transport means comprises a pair of indentations, with each of said pair of indentations associated with one of said bottom wall and said side wall.

8. (Previously Presented) The data cartridge magazine, as claimed in claim 1, further comprising: an engaged/disengaged structure for use with a sensor that is used to determine if said magazine transport device associated with said magazine-based data cartridge library is engaged/disengaged to/from the data cartridge magazine.

9. (Previously Presented) The data cartridge magazine, as claimed in claim 1, further comprising: a magazine orientation structure for ensuring that the data cartridge magazine has a desired orientation within said magazine-based data cartridge library.

10. (Previously Presented) The data cartridge magazine, as claimed in claim 9, wherein: said magazine orientation structure comprises an asymmetric structure this is asymmetric relative to a plane that vertically bisects the data cartridge magazine.

11. (Previously Presented) The data cartridge magazine, as claimed in claim 10, wherein: said asymmetric structure comprises a pair of parallel rails.

12. (Previously Presented) The data cartridge magazine, as claimed in claim 1, further comprising: a retaining structure for use in holding the data cartridge magazine in association

with a shelf within said magazine-based data cartridge library but releasing the data cartridge magazine when a force is applied to the data cartridge magazine by said magazine transport device associated with the magazine-based data cartridge library.

13. (Previously Presented) The data cartridge magazine, as claimed in claim 12, wherein: said retaining structure comprises a notch for engaging a notch-engaging structure associated with said shelf.

14. (Previously Presented) The data cartridge magazine, as claimed in claim 12, wherein: said retaining structure comprises a detent for use in engaging a notch associated with said shelf.

15. (Previously Presented) The data cartridge magazine, as claimed in claim 12, wherein: said retaining structure comprises: a detent for engaging a notch associated with said shelf; and a spring for applying a force to said detent.

16. (Previously Presented) The data cartridge magazine, as claimed in claim 1, further comprising: a data cartridge orientation structure associated with each of said slots to ensure that when one of said data cartridges is inserted into one of said slots, the data cartridge has a desired orientation.

17. (Canceled)

18. (Previously Presented) The data cartridge magazine, as claimed in claim 1, further comprising: label means for use in identifying the data cartridge magazine.

19. (Previously Presented) The data cartridge magazine, as claimed in claim 18, wherein: said label means comprises an indentation in said side wall for accommodating a label for identifying the magazine.

20. (Previously Presented) The data cartridge magazine, as claimed in claim 18, wherein: said label means comprises: a first indentation in said side wall exterior surface for

accommodating a first label for identifying the magazine; and a second indentation in said side wall exterior surface for accommodating a second label for identifying the magazine.

21. (Previously Presented) The data cartridge magazine, as claimed in claim 20, wherein: said side wall comprising a first wall and a second wall that is substantially parallel to said first wall; wherein said first indentation is located in said first wall; and wherein said second indentation is located in said second wall.

22. (Previously Presented) The data cartridge magazine, as claimed in claim 18, wherein: said label means comprises a sleeve for holding a label.

23. (Previously Presented) The data cartridge magazine, as claimed in claim 18, wherein: said label means comprises a radio-frequency identifier.

24. (Previously Presented) The data cartridge magazine, as claimed in claim 1, further comprising: a label that identifies the data cartridge magazine and is attached to said box structure at a location that is discernable by a label reader located within said magazine-based data cartridge library.

25. (Canceled)

26. (Previously Presented) The data cartridge magazine, as claimed in claim 51, wherein: said closed-loop side wall comprises: a first pair of parallel side surfaces; and a second pair of parallel side surfaces that are perpendicular to said first pair of parallel side surfaces.

27. (Canceled)

28. (Previously Presented) The data cartridge magazine, as claimed in claim 51, wherein: said magazine transport means comprises at least one hole that is associated with said frame structure.

29. (Previously Presented) The data cartridge magazine, as claimed in claim 51, wherein: said magazine transport means comprises at least one protrusion that is associated with said frame structure.

30. (Previously Presented) The data cartridge magazine, as claimed in claim 51, wherein: said magazine transport means comprises at least one indentation that is associated with said frame structure.

31. (Canceled)

32. (Canceled)

33. (Canceled)

34. (Previously Presented) The data cartridge magazine, as claimed in claim 51, further comprising: an engaged/disengaged structure for use with a sensor that is used to determine if said magazine transport device associated with said magazine-based data cartridge library is engaged/disengaged to/from the data cartridge magazine.

35. (Previously Presented) The data cartridge magazine, as claimed in claim 51, further comprising: a magazine orientation structure for ensuring that the data cartridge magazine has a desired orientation within said magazine-based data cartridge library.

36. (Previously Presented) The data cartridge magazine, as claimed in claim 35, wherein: said magazine orientation structure comprises an asymmetric structure this is asymmetric relative to a plane that vertically bisects the data cartridge magazine.

37. (Previously Presented) The data cartridge magazine, as claimed in claim 36, wherein: said asymmetric structure comprises a pair of parallel rails.

38. (Previously Presented) The data cartridge magazine, as claimed in claim 51, further

comprising: a retaining structure for use in holding said data cartridge magazine in association with a shelf within said magazine-based data cartridge library but releasing the data cartridge magazine when a force is applied to the data cartridge magazine by said magazine transport device associated with the magazine-based data cartridge library.

39. (Previously Presented) The data cartridge magazine, as claimed in claim 38, wherein: said retaining structure comprises a notch for engaging a notch-engaging structure associated with said shelf.

40. (Previously Presented) The data cartridge magazine, as claimed in claim 38, wherein: said retaining structure comprises a detent for use in engaging a notch associated with said shelf.

41. (Previously Presented) The data cartridge magazine, as claimed in claim 38, wherein: said retaining structure comprises: a detent for engaging a notch associated with said shelf; and a spring for applying a force to said detent.

42. (Previously Presented) The data cartridge magazine, as claimed in claim 51, further comprising: a data cartridge orientation structure associated with each of said plurality of slots to ensure that when one of said data cartridges is inserted in a one of said plurality of slots, the data cartridge is in a predetermined orientation.

43. (Canceled)

44. (Previously Presented) The data cartridge magazine, as claimed in claim 51, further comprising: label means for use in identifying the data cartridge magazine.

45. (Previously Presented) The data cartridge magazine, as claimed in claim 44, wherein: said label means comprises an indentation located in a portion of said frame structure that would be considered a side wall when the data cartridge magazine has an operational orientation with respect to a shelf within said magazine-based data cartridge library, wherein said indentation is for accommodating a label for identifying the magazine.

46. (Previously Presented) The data cartridge magazine, as claimed in claim 44, wherein: said label means comprises: a first indentation located in a first portion of said frame structure; and a second indentation in a second portion of said frame structure that is separated from said first portion; wherein said first indentation is for accommodating a first label for identifying the magazine; wherein said second indentation is for accommodating a second label for identifying the magazine; wherein said first and second portions are each located on a section of said frame structure that would be considered a side wall when the data cartridge magazine has an operational orientation with respect to a shelf within said magazine-based data cartridge library.

47. (Previously Presented) The data cartridge magazine, as claimed in claim 46, wherein: said first portion being located on a first side wall; and said second portion being located on a second side wall that is parallel to said first side wall.

48. (Previously Presented) The data cartridge magazine, as claimed in claim 44, wherein: said label means comprises a sleeve for holding a label.

49. (Previously Presented) The data cartridge magazine, as claimed in claim 44, wherein: said label means comprises a radio-frequency identifier.

50. (Previously Presented) The data cartridge magazine, as claimed in claim 51, further comprising: a label that identifies the data cartridge magazine and is attached to said frame structure at a location that is discernable by a label reader located within said magazine-based data cartridge library.

51. (Previously Presented) A data cartridge magazine for use with a magazine-based data cartridge library comprising:

a frame structure comprising a closed-loop side wall which extends to a terminal edge from an end attached to a bottom surface wherein said frame structure defines an interior space;

a top opening to said interior space defined by said terminal edge where through data cartridges are capable of being inserted and extracted;

a partitioning structure for dividing said interior space into a plurality of slots each capable of accommodating one of said data cartridges;

said data cartridge magazine capable of being transported to and from a storage local within said library by a magazine transport means wherein said magazine transport means is adapted to be engaged by a portion of a magazine transport device associated with said library.

52. (Currently Amended) A method for using a data cartridge magazine in a magazine-based data cartridge library comprising:

inserting a data cartridge in one of a plurality of accommodating slots comprised by said magazine through an opening in said magazine wherein said magazine comprises a base attached to a closed loop wall and wherein said magazine is only capable of receiving said data cartridge from one direction;

transporting said magazine within said library with a magazine transport means adapted to be engaged by a portion of a magazine transport device; and

moving said magazine to and from a shelf of a shelf system within said library.

53. (Previously Presented) The method of claim 52 wherein said closed loop wall comprises two pair of substantially parallel surfaces.

54. (Previously Presented) The method of claim 53 wherein said magazine base is substantially rectangular.

55. (Previously Presented) The method of claim 53 wherein said closed loop wall comprises two pair of substantially rectangular substantially parallel surfaces.

56. (Canceled)

57. (Previously Presented) The method of claim 52 further comprising extracting said data

cartridge from a resting position on said base in an orthogonal extracting direction from said base through said opening wherein said extracting path is opposite an insertion path in said inserting step.